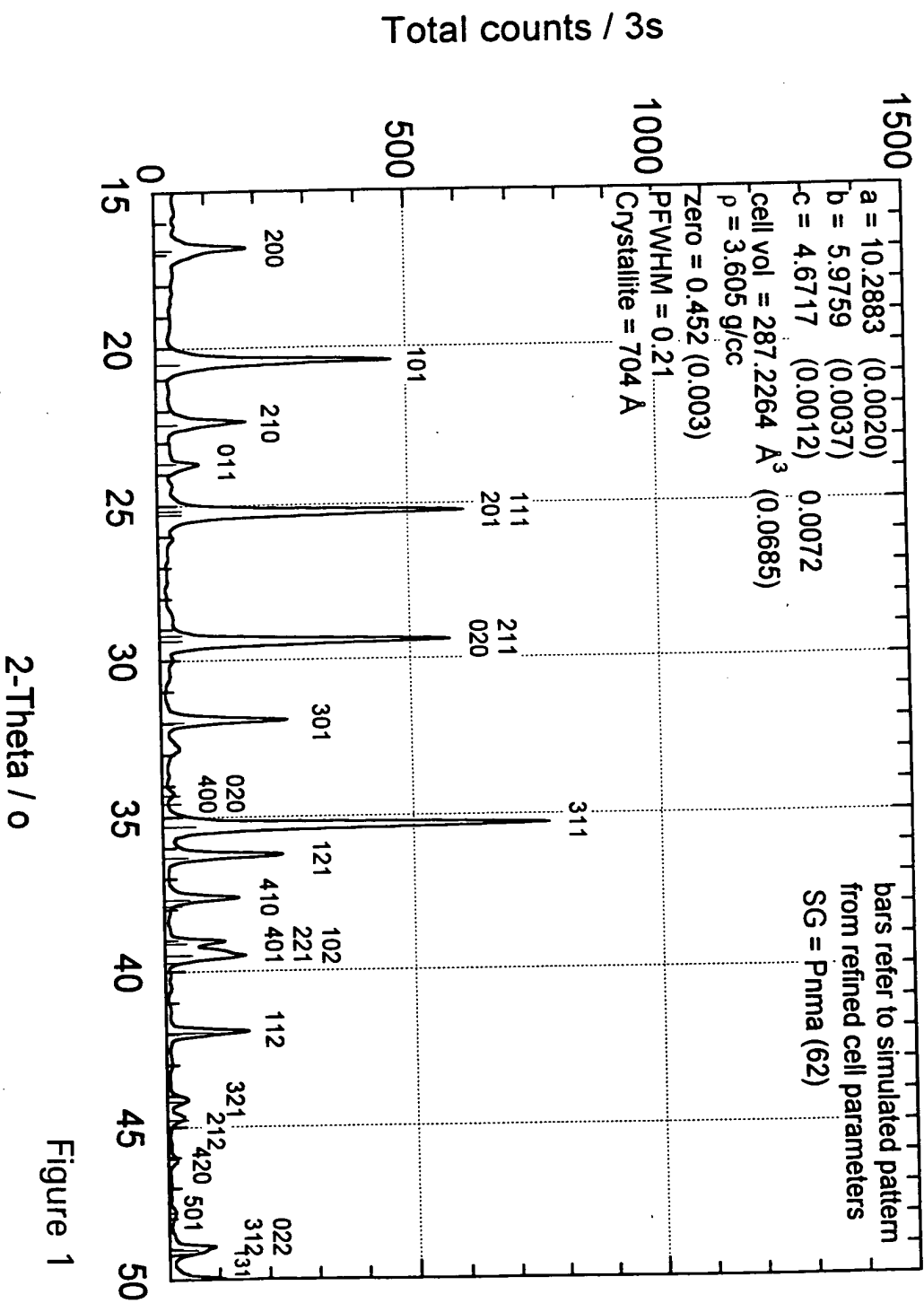


# 2S1036A1 (LiFePO<sub>4</sub>)



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LiFePO<sub>4</sub> 2.5 -4.0 V

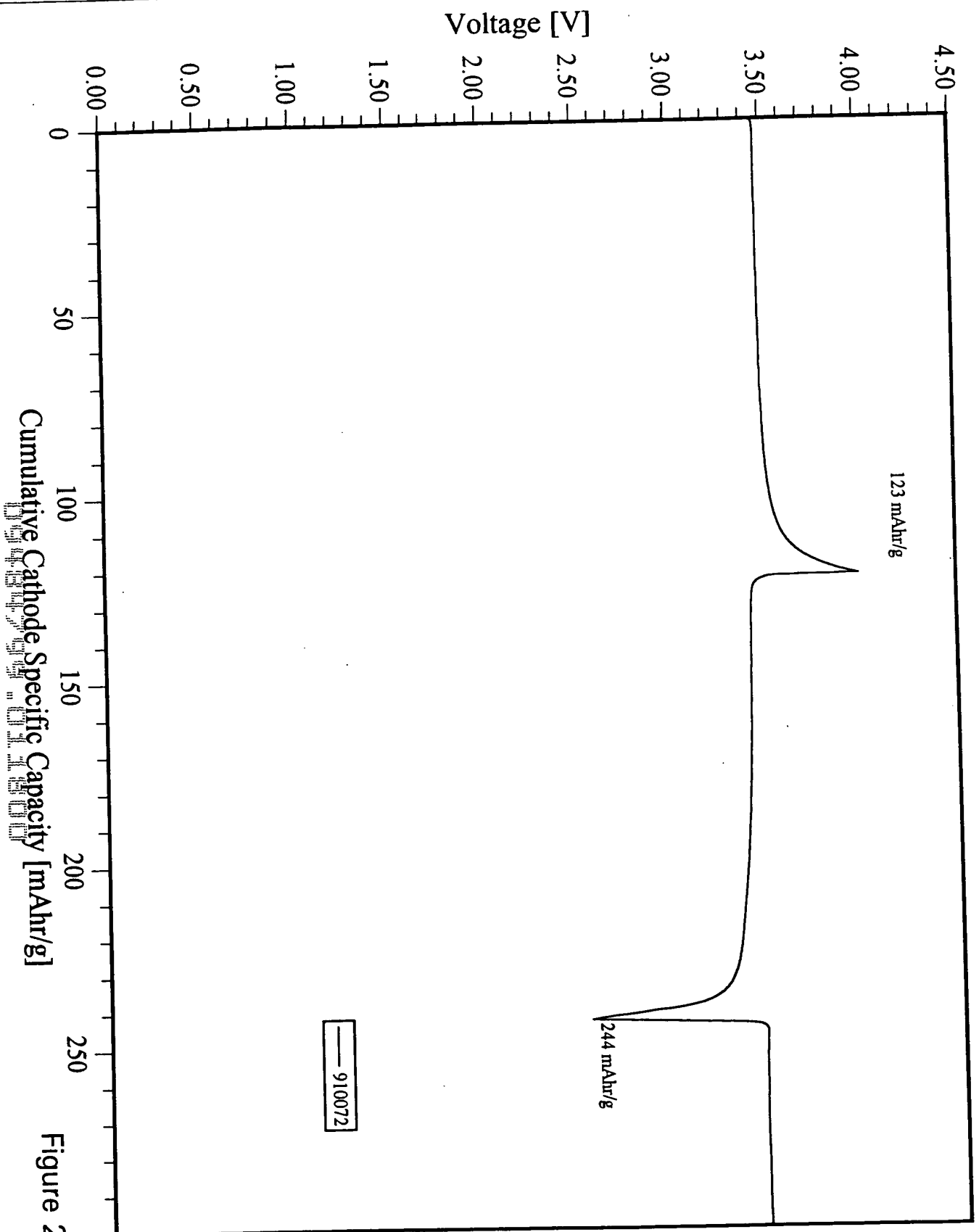


Figure 2

# Carbothermal LiFePO<sub>4</sub> vs Li

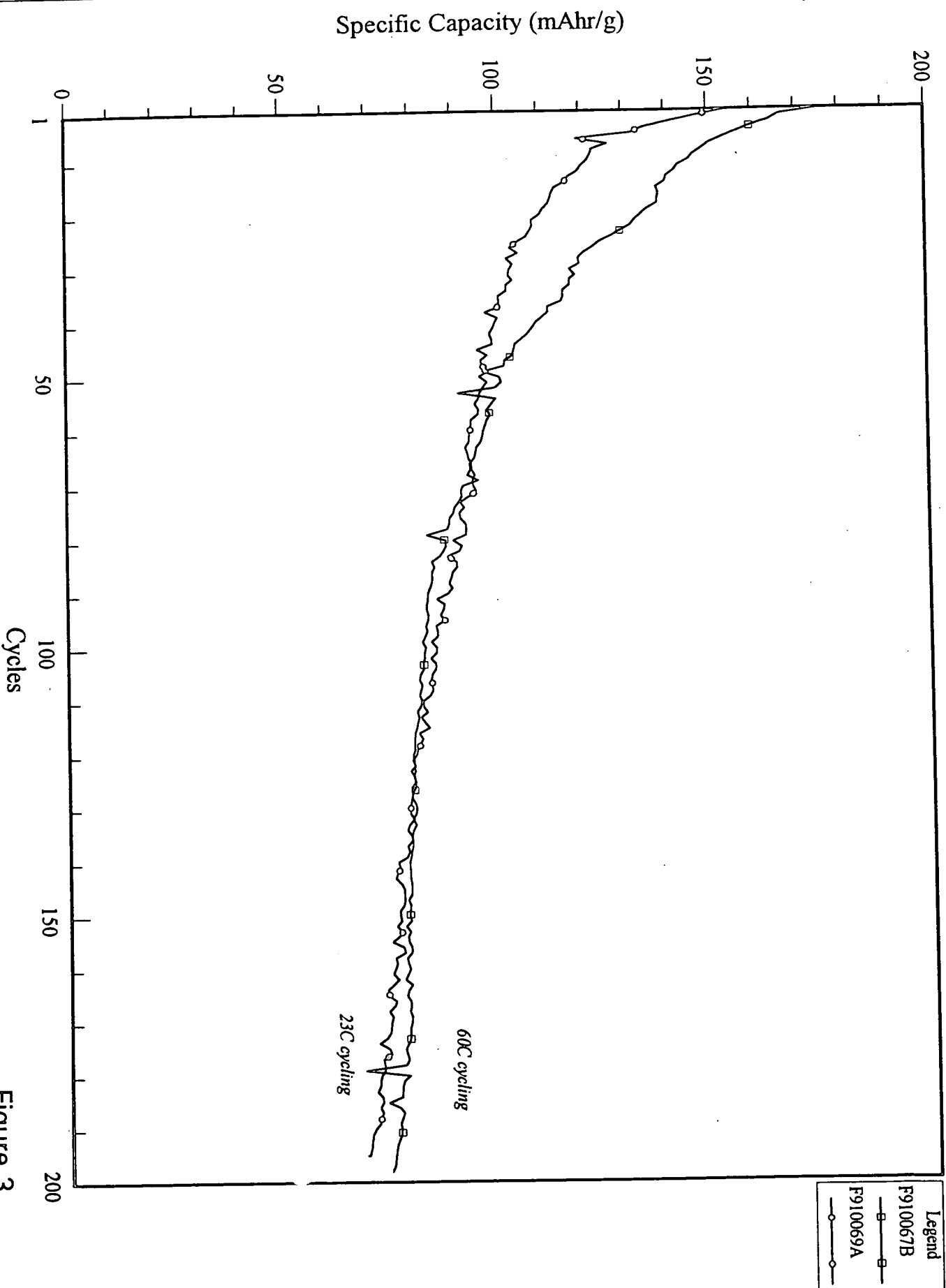


Figure 3

09484799.01.1800

# 1S0937A1 (LiFe<sub>0.9</sub>Mg<sub>0.1</sub>PO<sub>4</sub>)

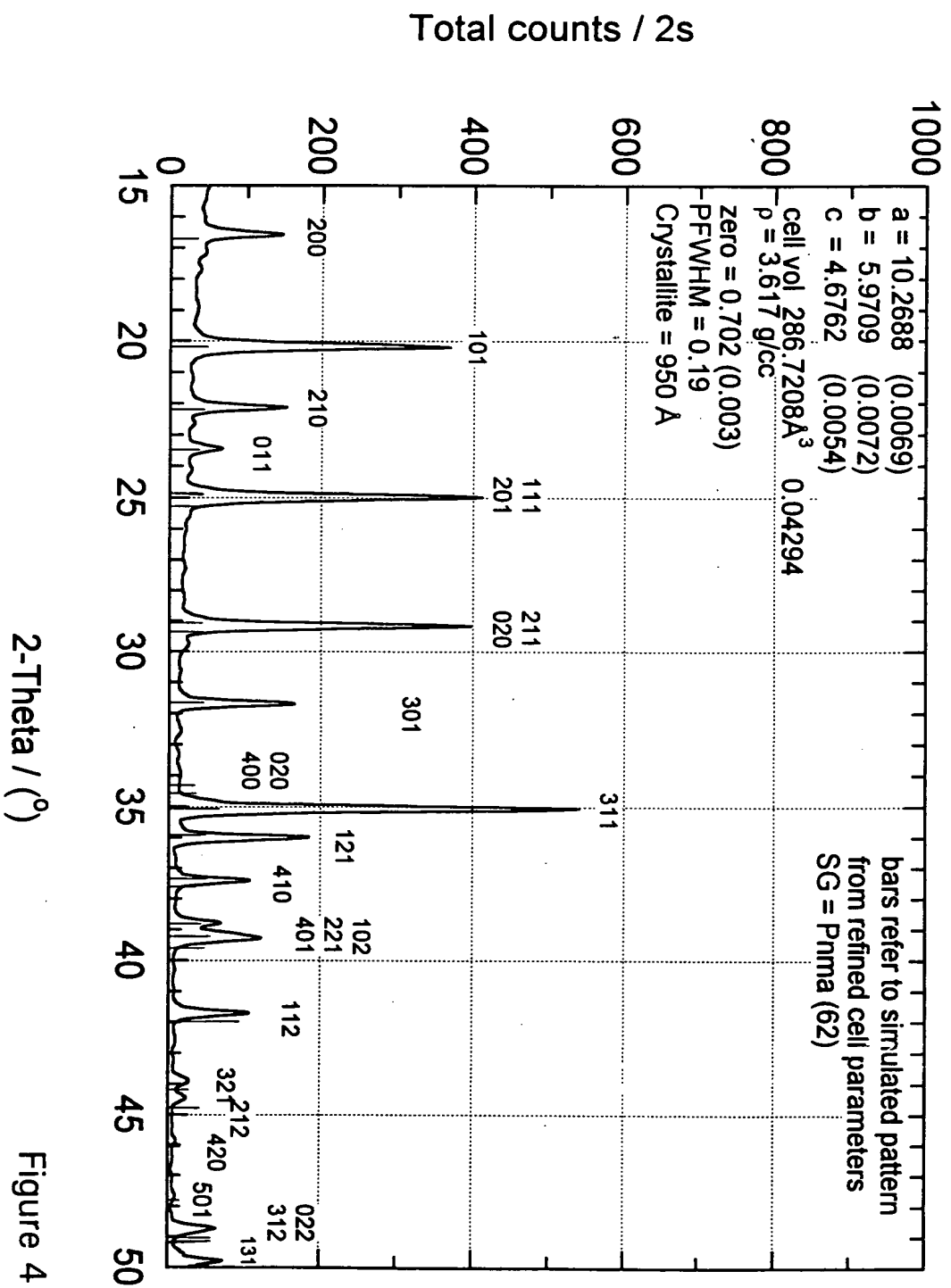


Figure 4

09484799, 01.1.2010

LiFe<sub>0.9</sub>Mg<sub>0.1</sub>PO<sub>4</sub> 2.5 - 4.0 V

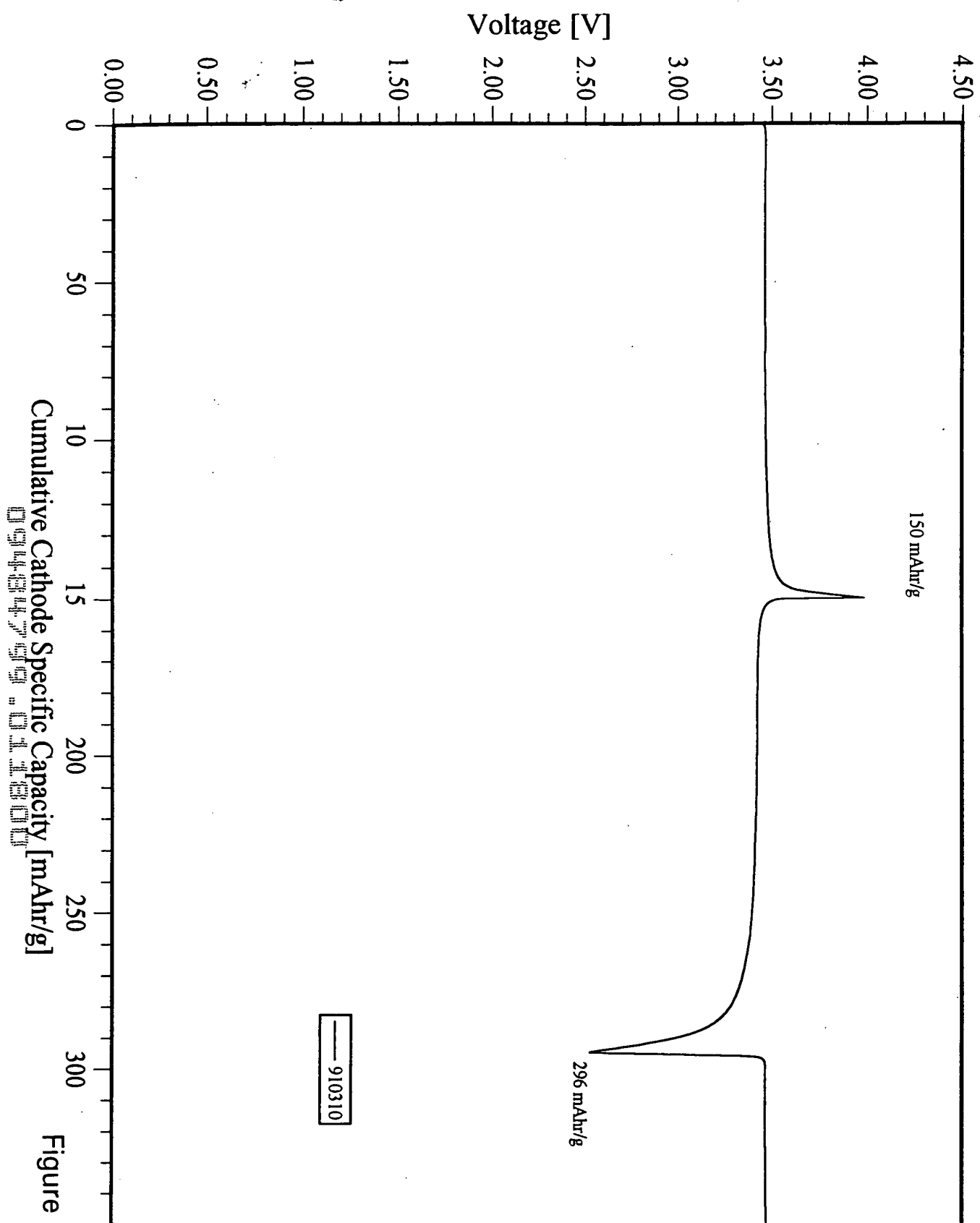


Figure 5

# Carbothermal $\text{LiMg}_{0.1}\text{Fe}_{0.9}\text{PO}_4$ vs Li

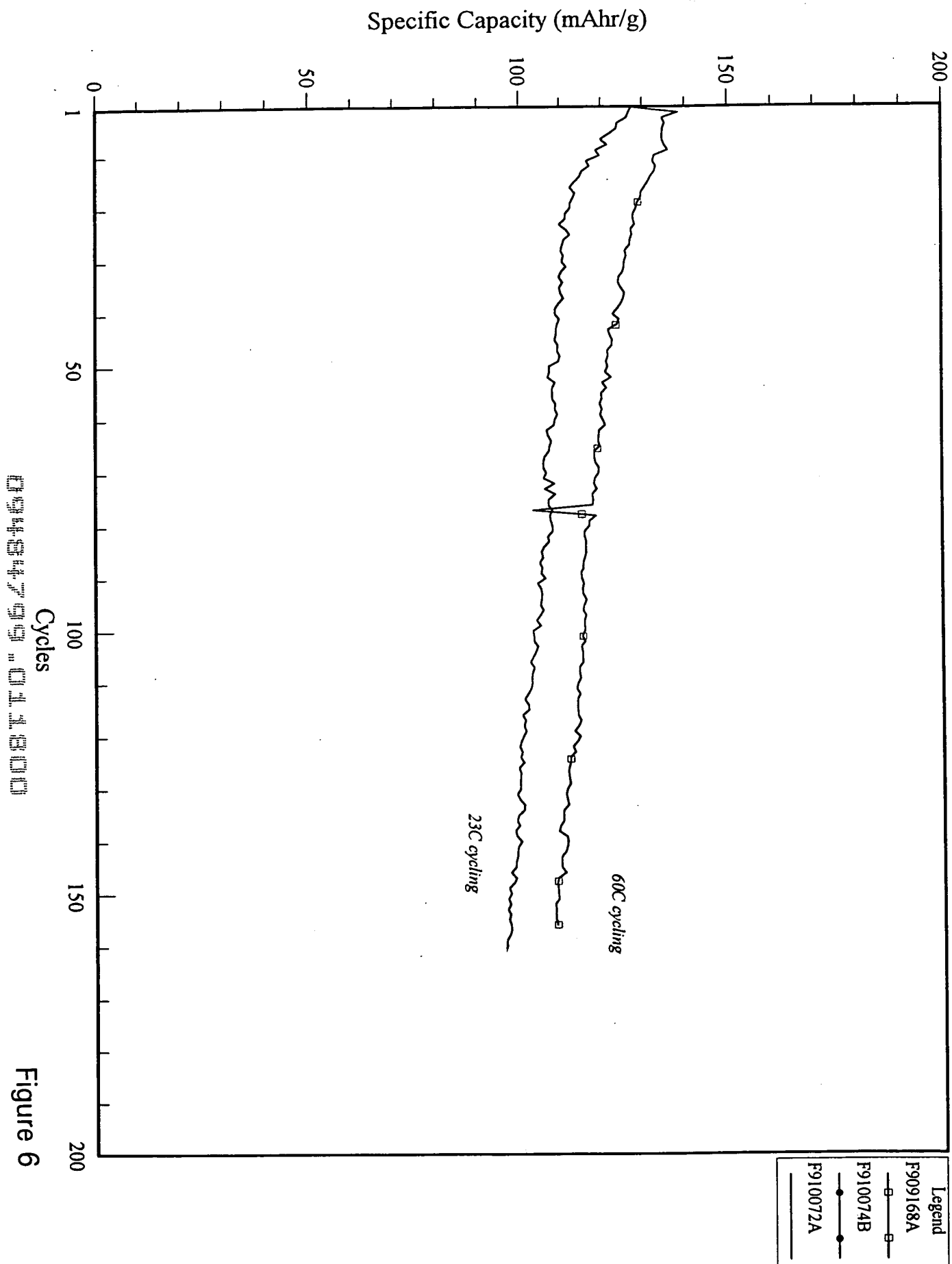


Figure 6

$\text{LiFe}_0.8\text{Mg}_0.2\text{PO}_4$  2.5 - 4.0 V

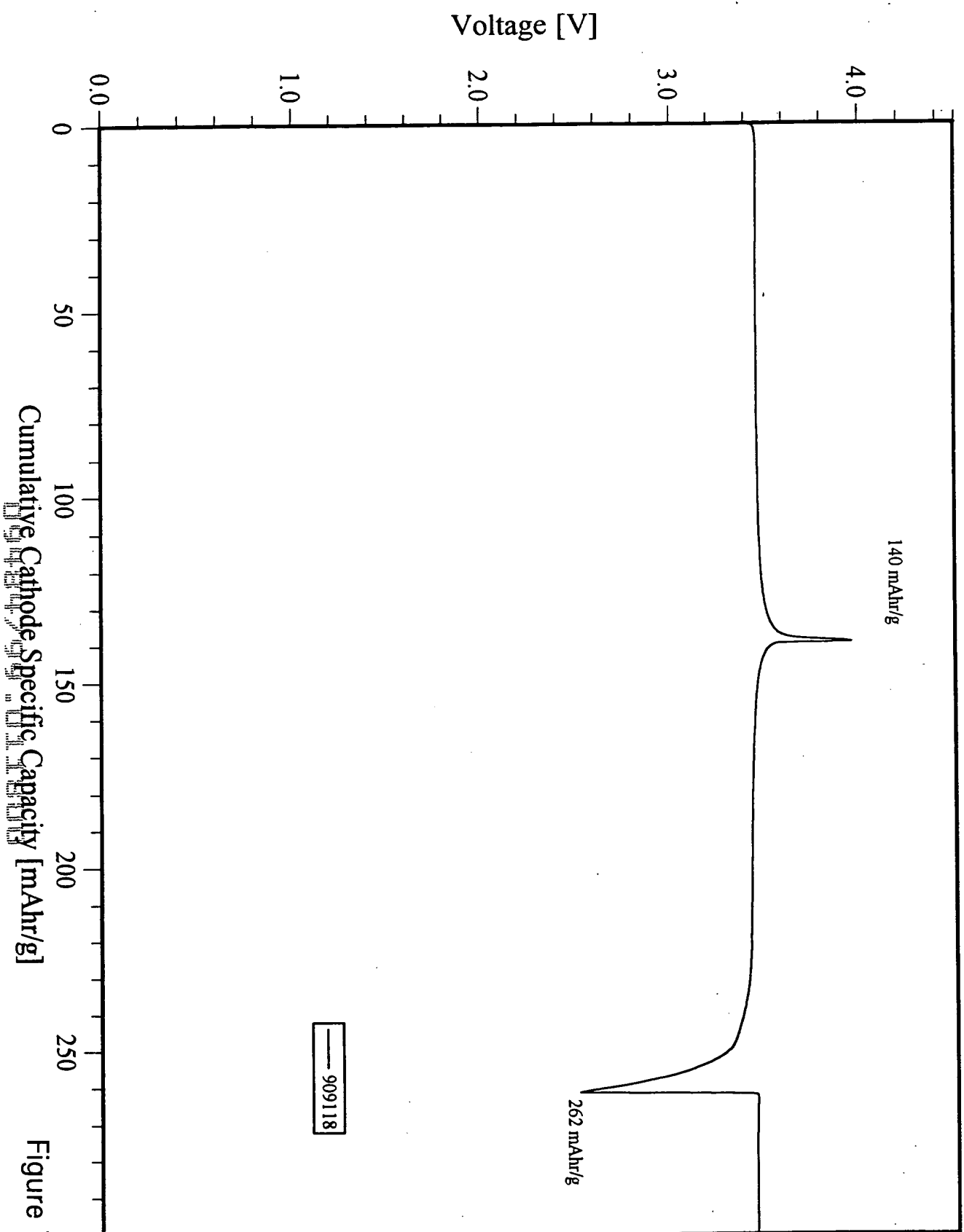


Figure 7

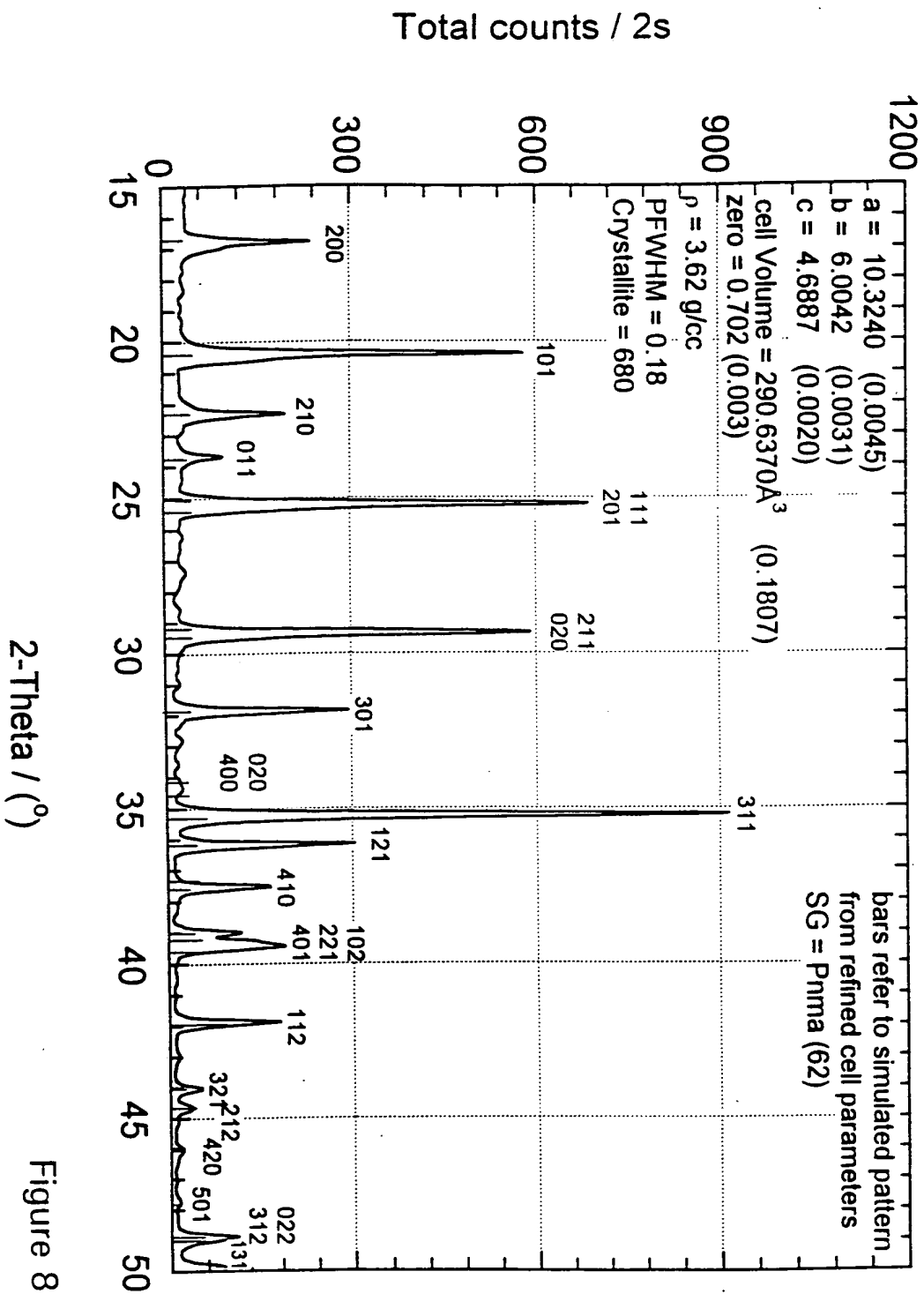
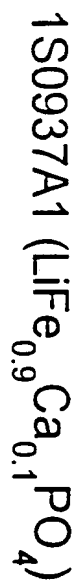


Figure 8

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LiFe<sub>0.8</sub>Ca<sub>0.2</sub>PO<sub>4</sub> 2.5 - 4.0 V

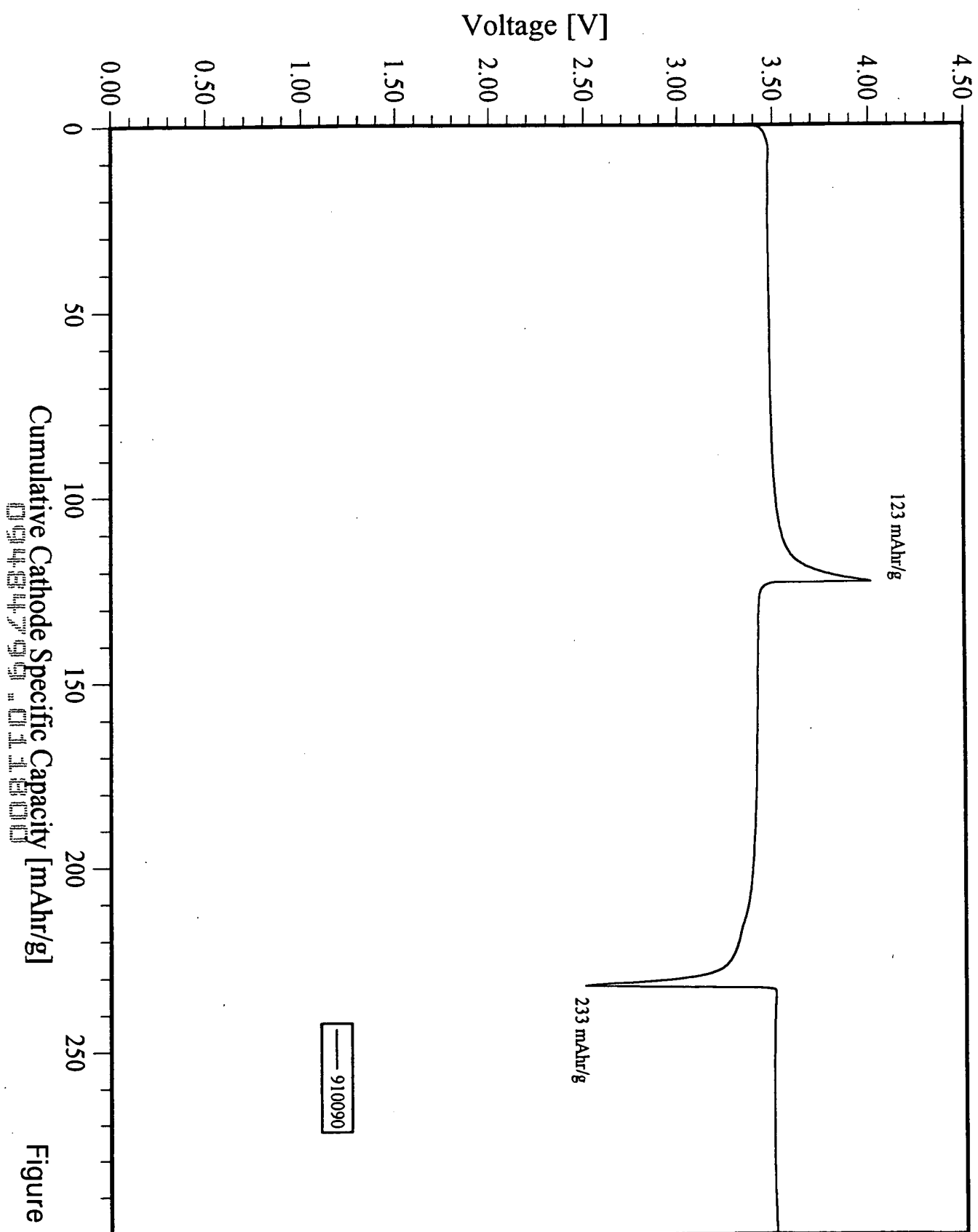


Figure 9

LiFe<sub>0.8</sub>Zn<sub>0.2</sub>PO<sub>4</sub> 2.5 - 4.0 V

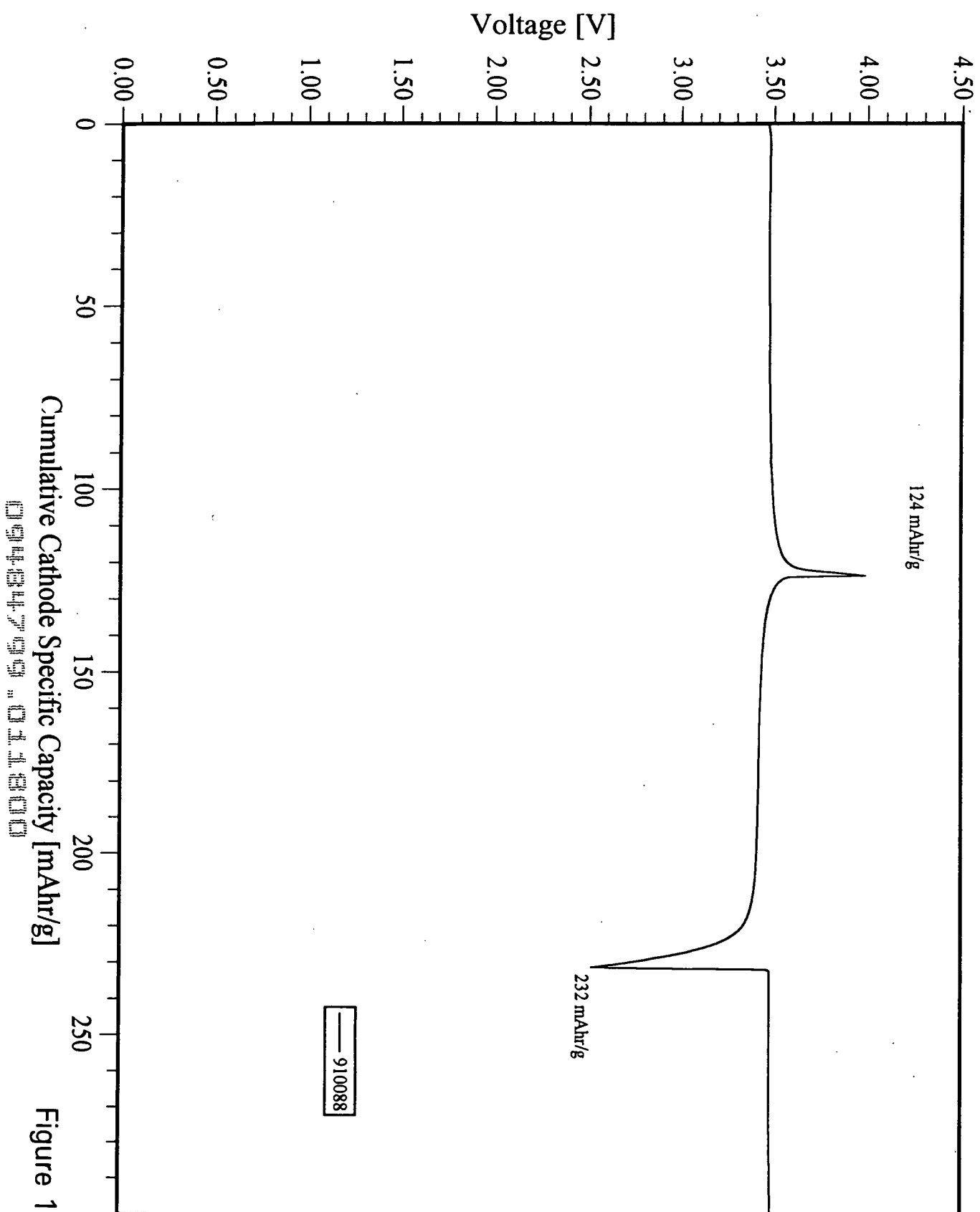
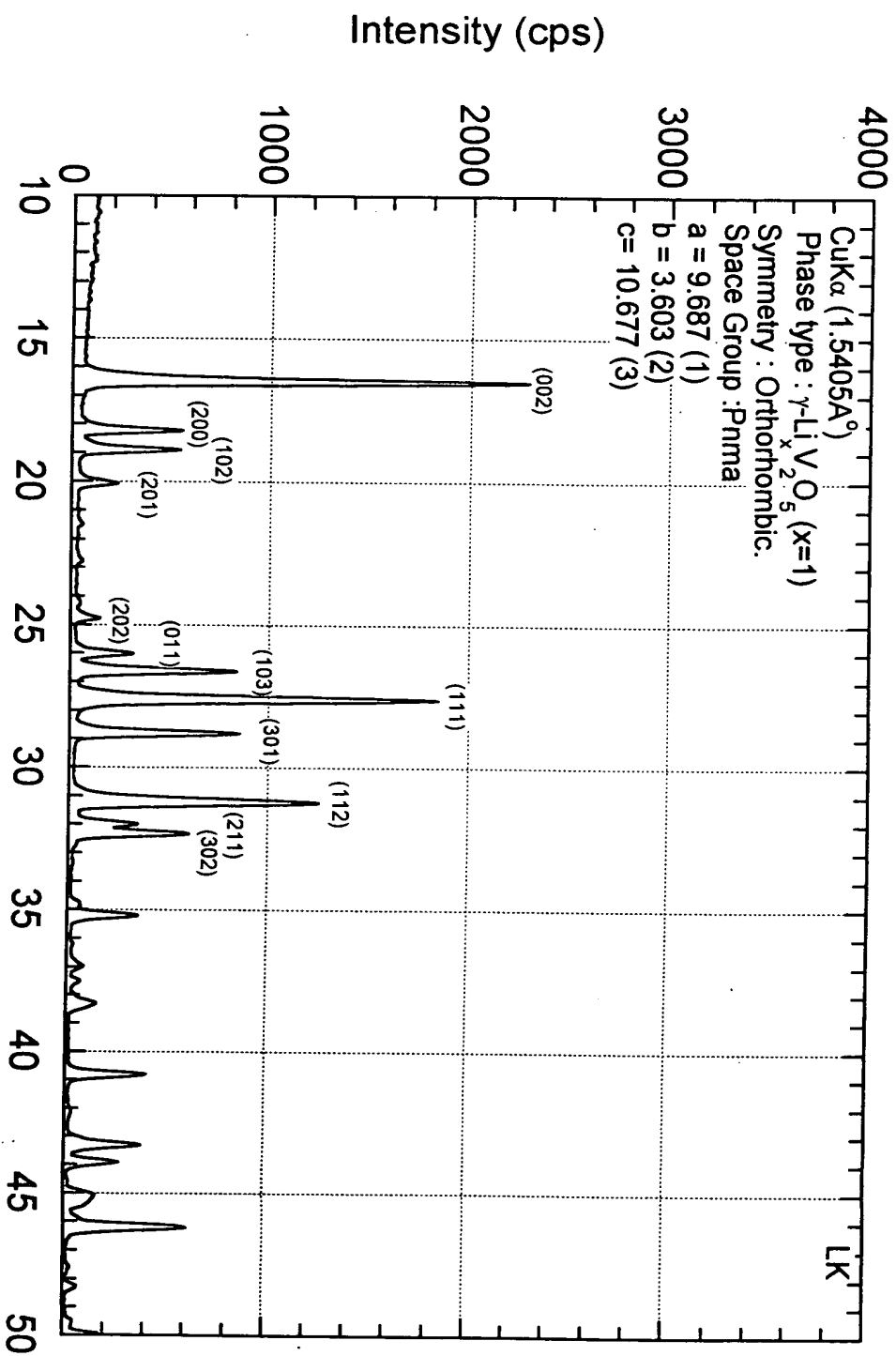


Figure 10

# gamma- $\text{Li}_x\text{V}_2\text{O}_5$ - carbo-thermal



2-theta (°)

Figure 11

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# gamma-LiV2O5 Synthesized by Carbothermal Reduction Method

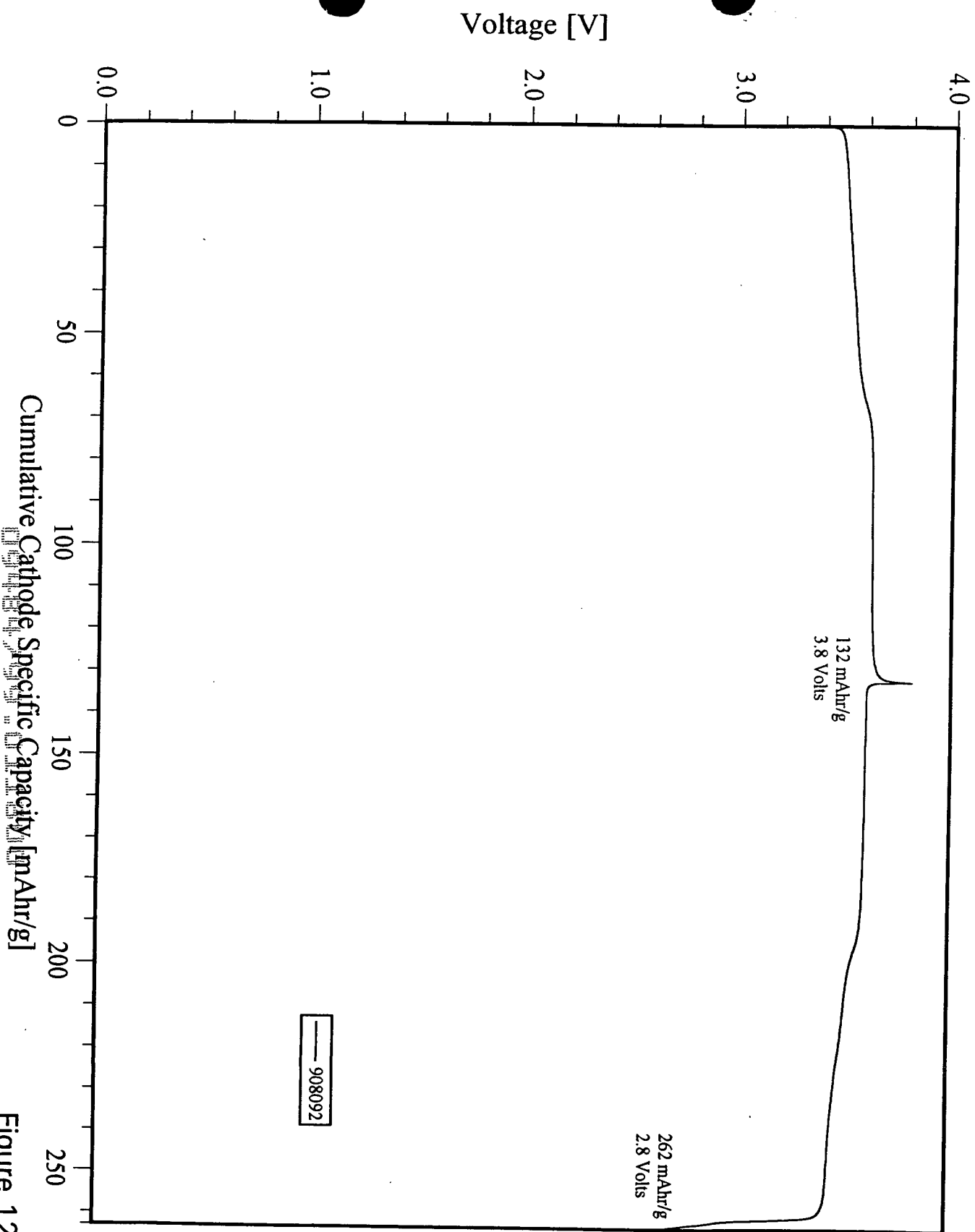


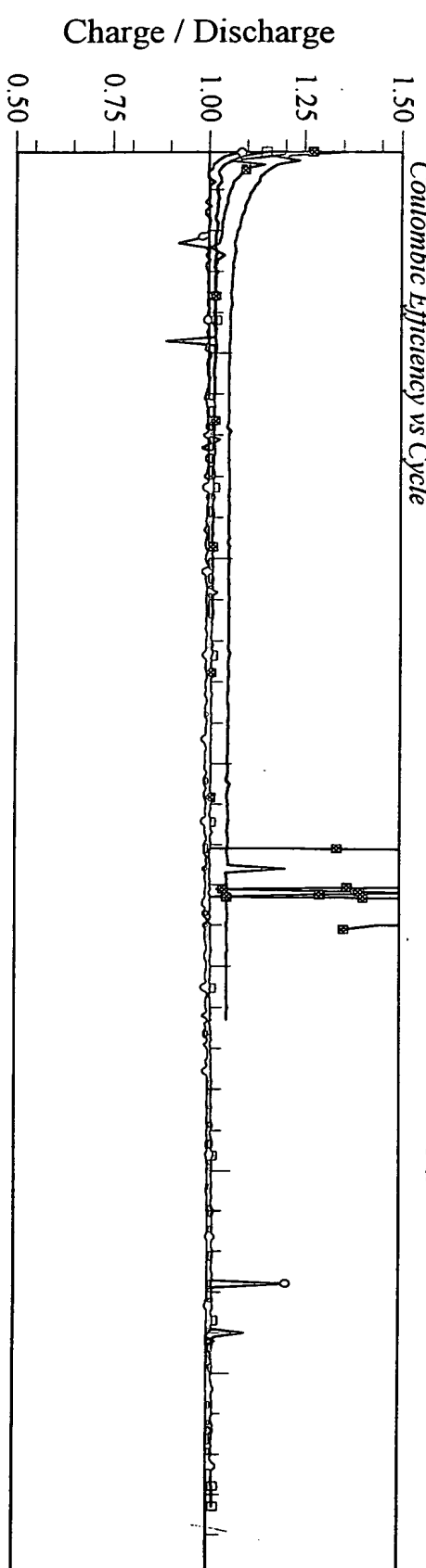
Figure 12

gamma-LiV<sub>2</sub>O<sub>5</sub> vs Li

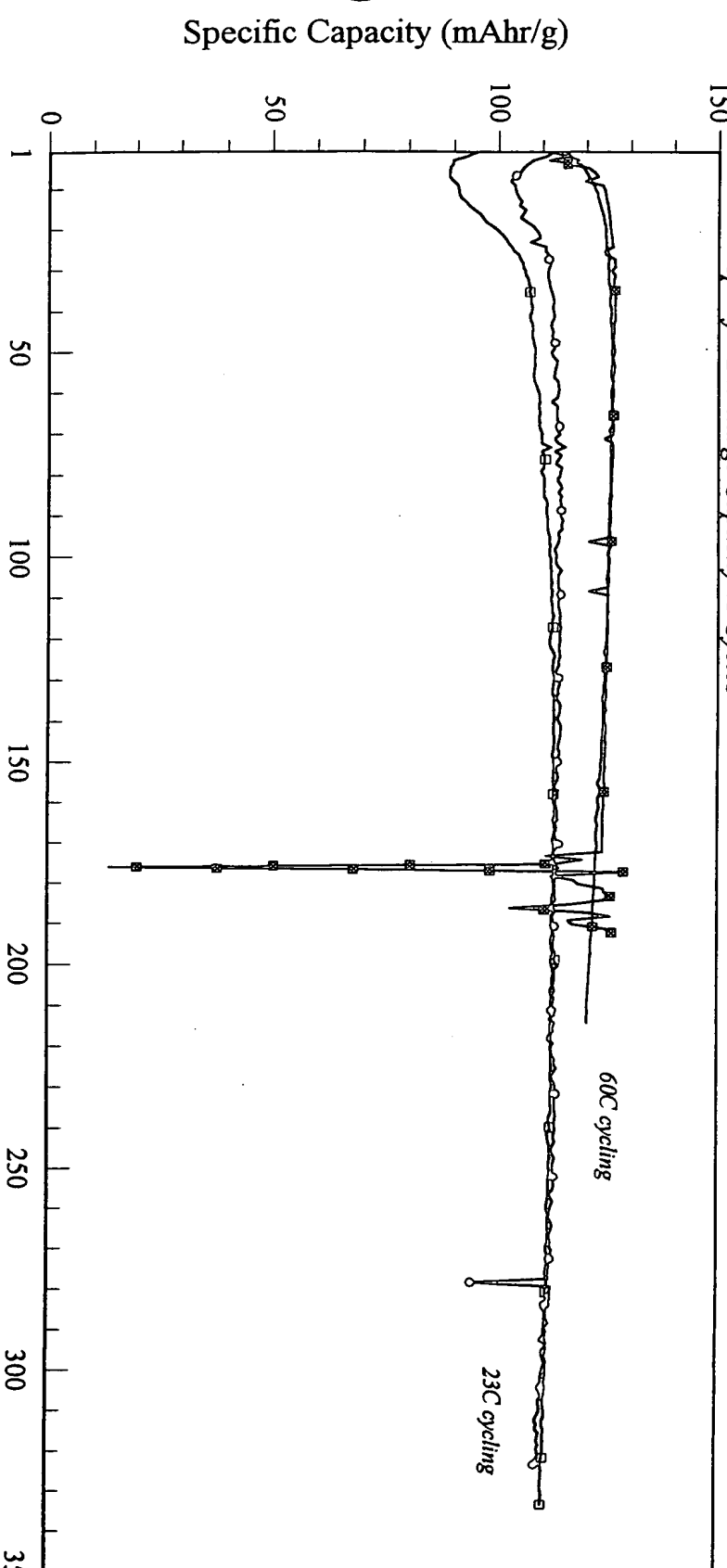
~C/2 rate, 3.0-3.75V

Carbothermal Reduction Method

Coulombic Efficiency vs Cycle



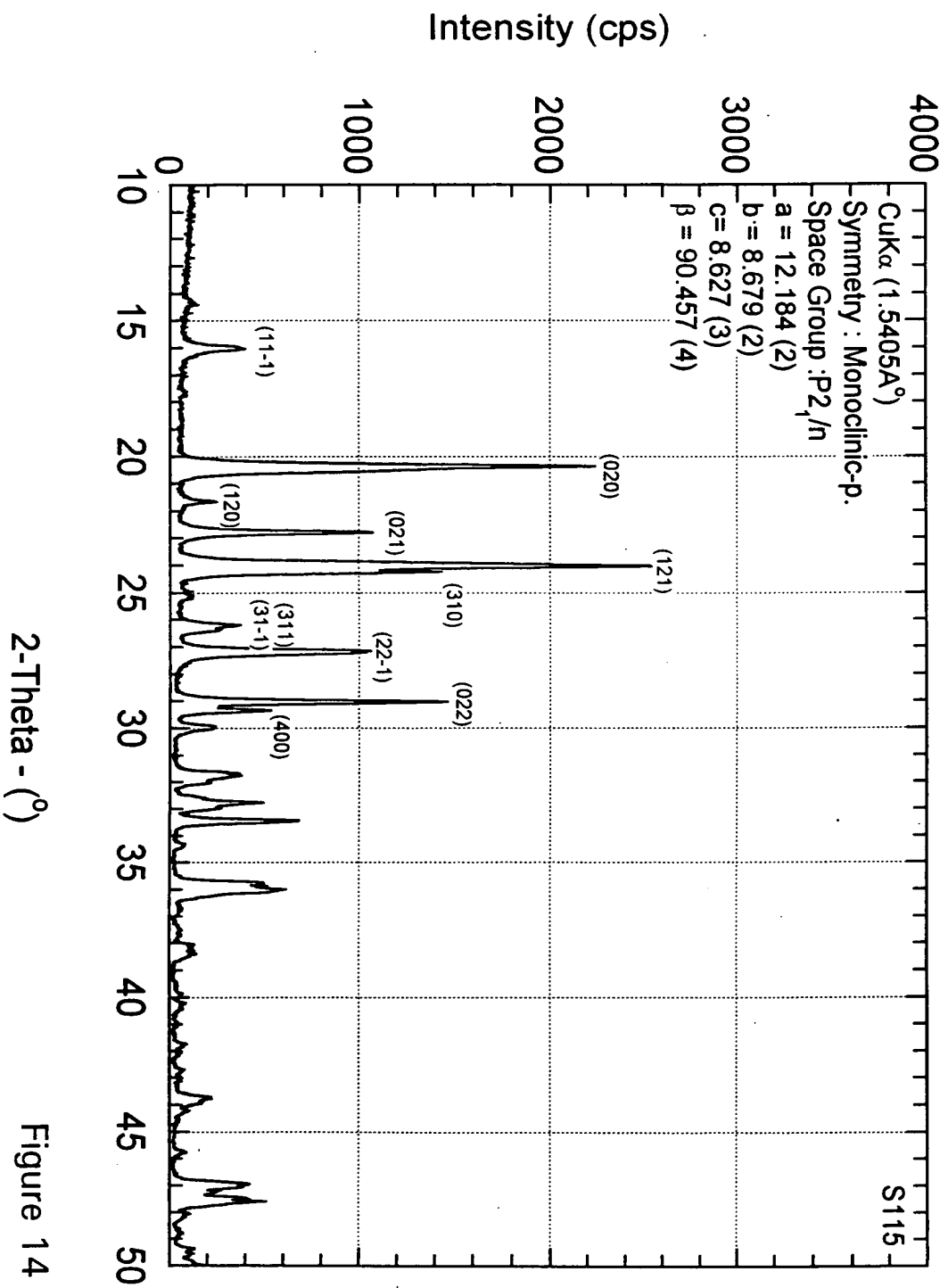
Cathode Specific Discharge Capacity vs Cycles



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Figure 13

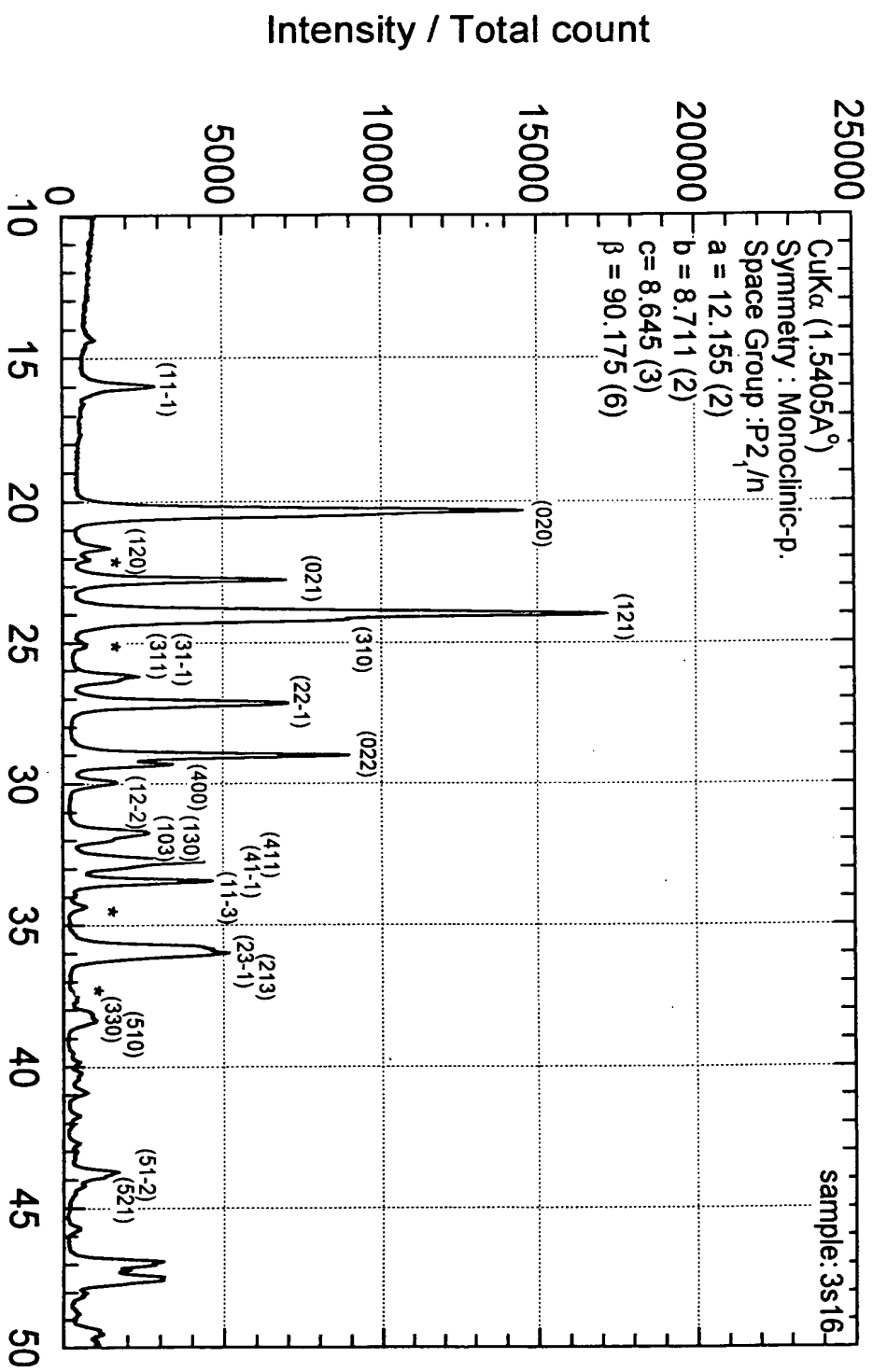
# $\text{Li}_3\text{V}_2(\text{PO}_4)_3$ - carbo-thermal



2-Theta - (°)

Figure 14

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2-Theta (°)

Figure 15

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Li<sub>3</sub>V<sub>2</sub>(PO<sub>4</sub>)<sub>3</sub> Synthesis by Carbothermal Reduction Method 13.8 mg active

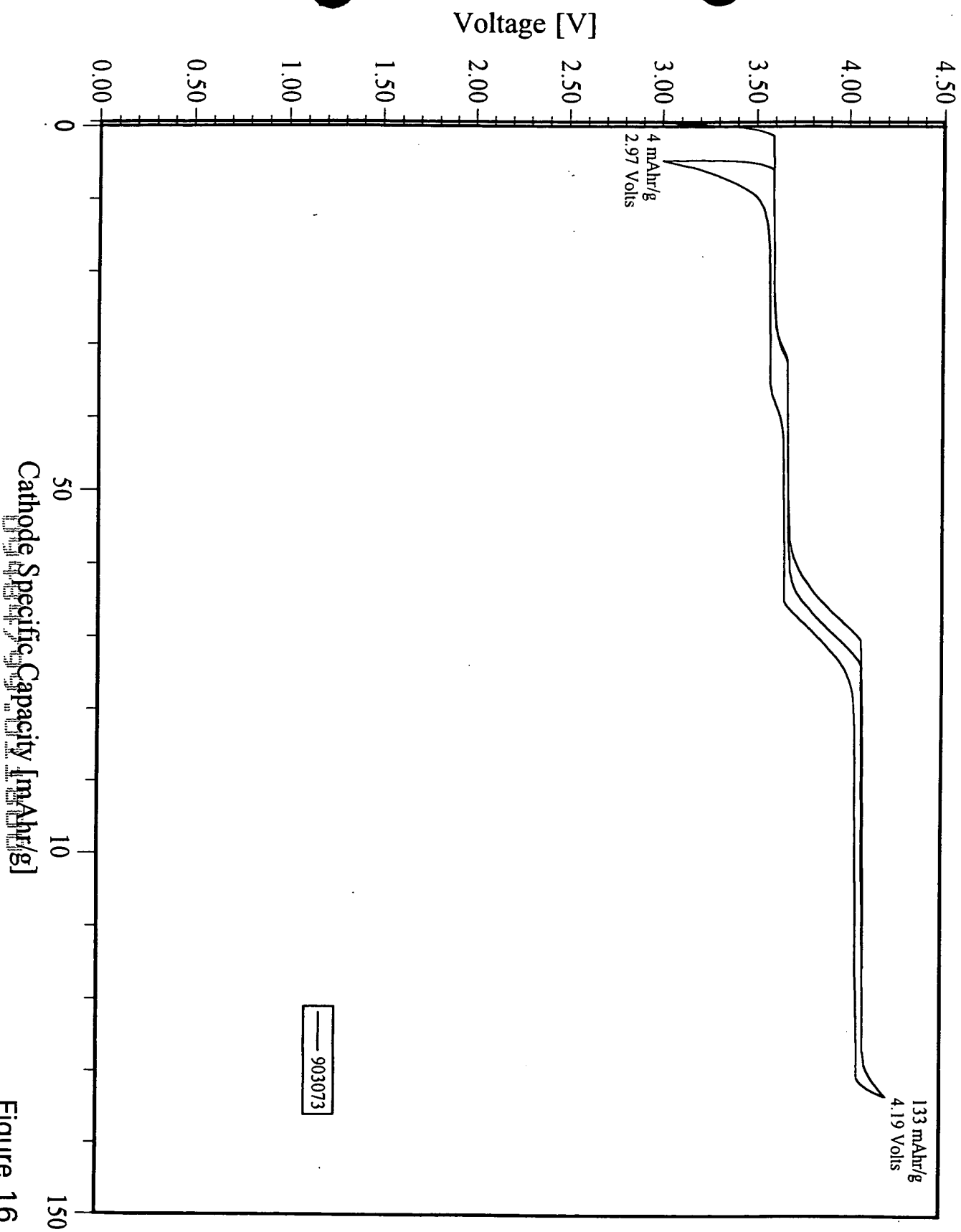
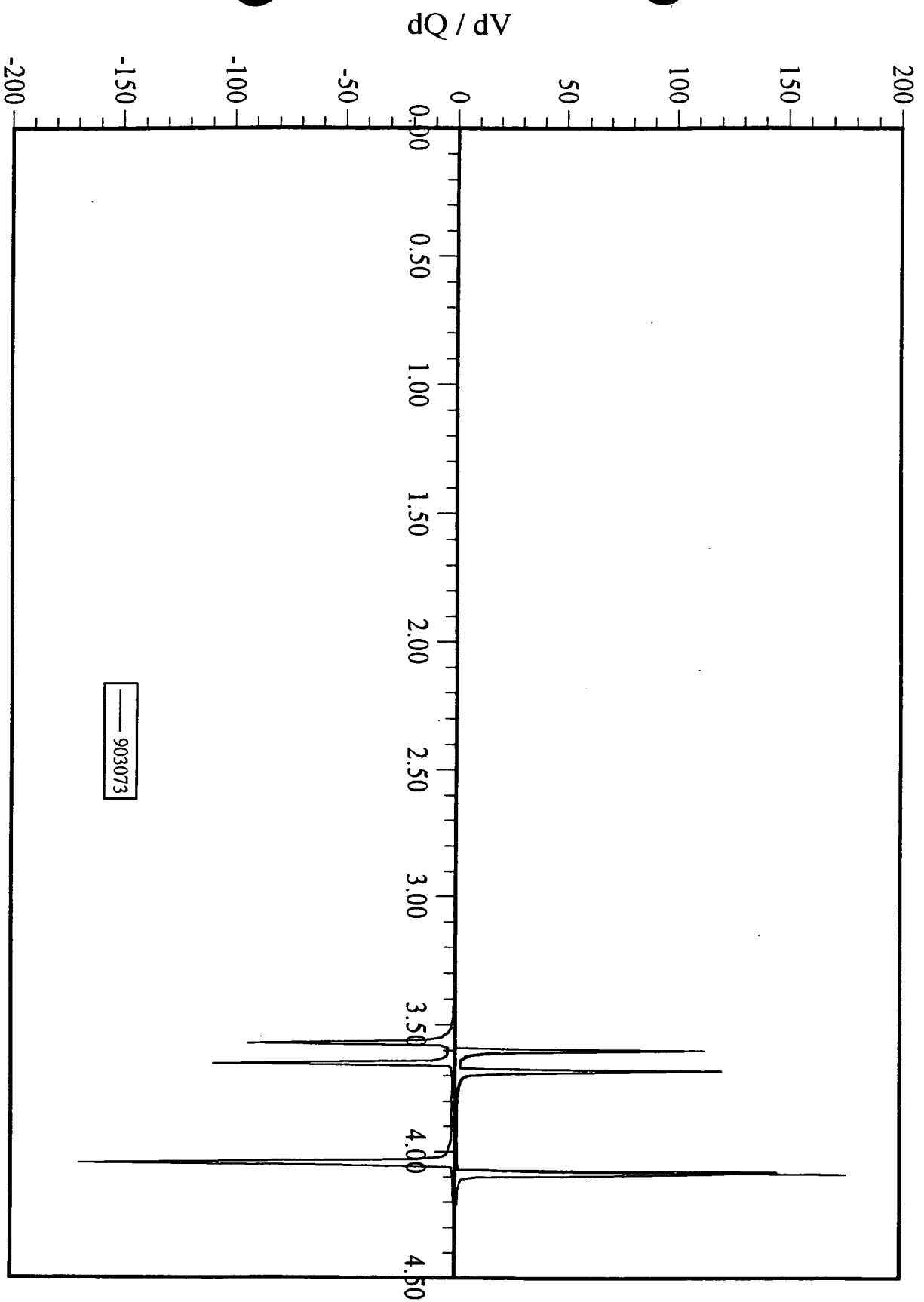


Figure 16



# Li<sub>3</sub>V<sub>2</sub>(PO<sub>4</sub>)<sub>3</sub> Synthesis by Carbothermal Reduction Method



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Figure 17

# Carbothermal $\text{LiMg}_{0.2}\text{Fe}_{0.8}\text{PO}_4$ vs Li

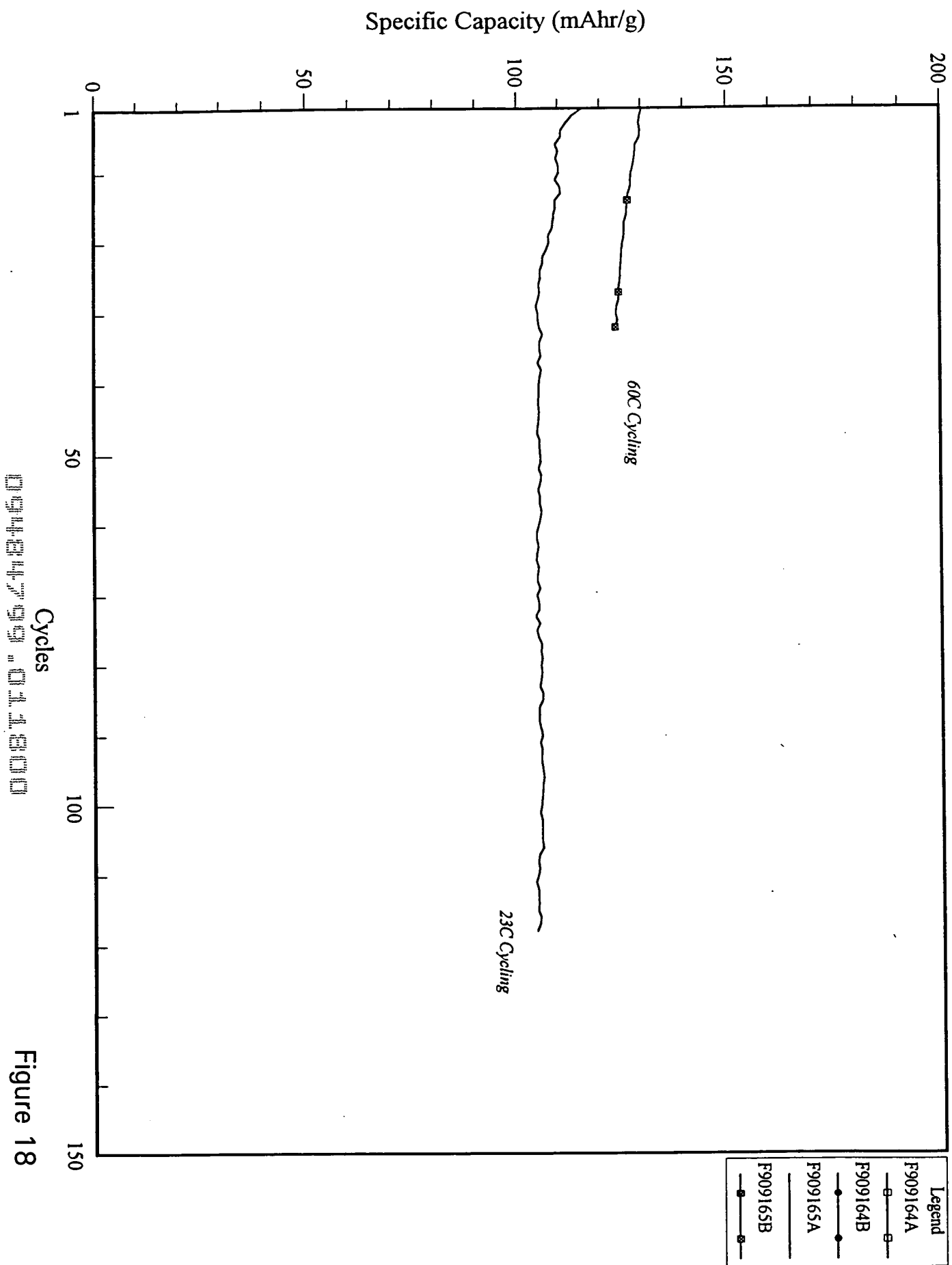


Figure 18

# Voltage Profile for LiMg<sub>0.1</sub>Fe<sub>0.9</sub>PO<sub>4</sub> vs MCMB

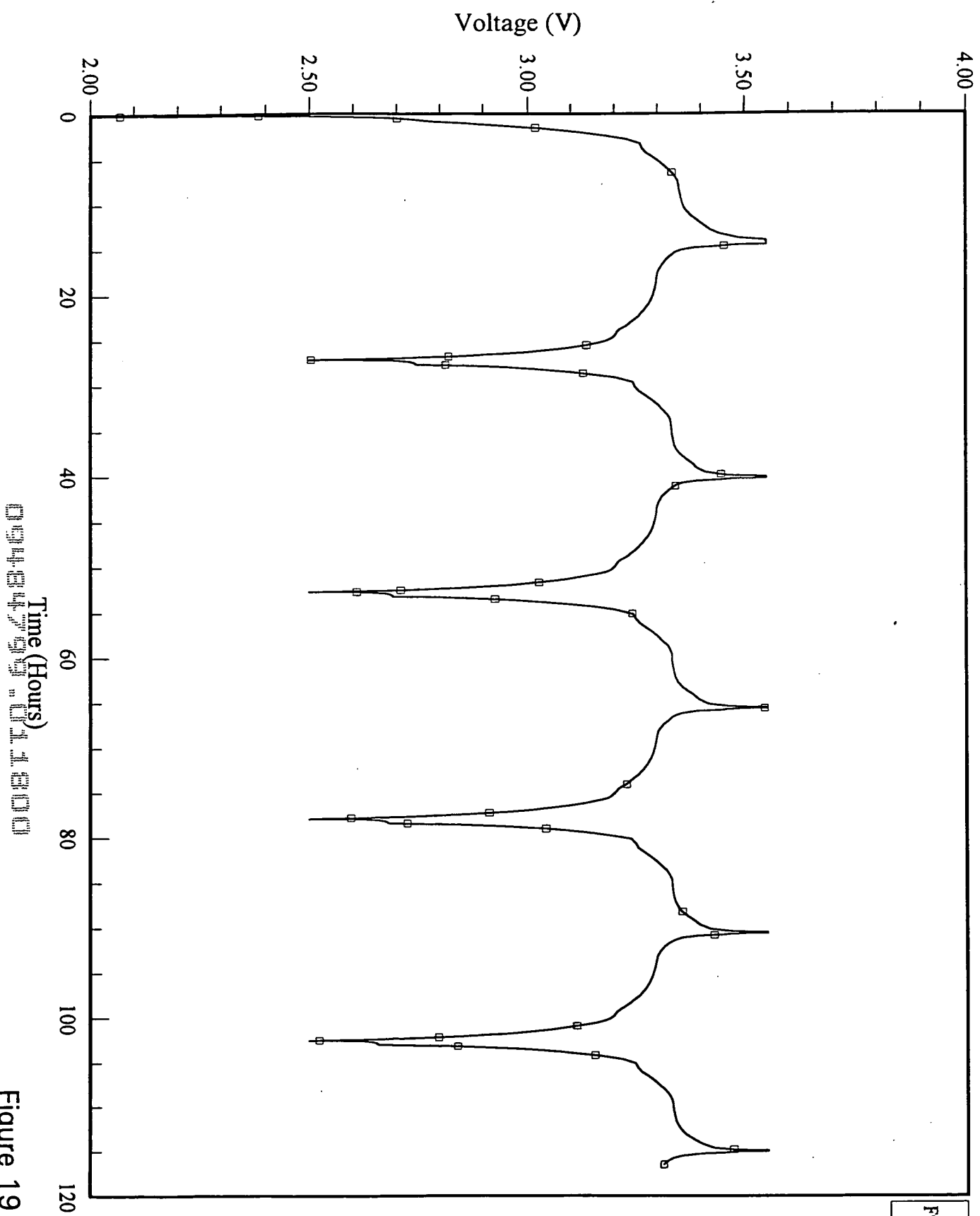


Figure 19

# Carbothermal LiMg<sub>0.1</sub>Fe<sub>0.9</sub>PO<sub>4</sub> vs MCMIB

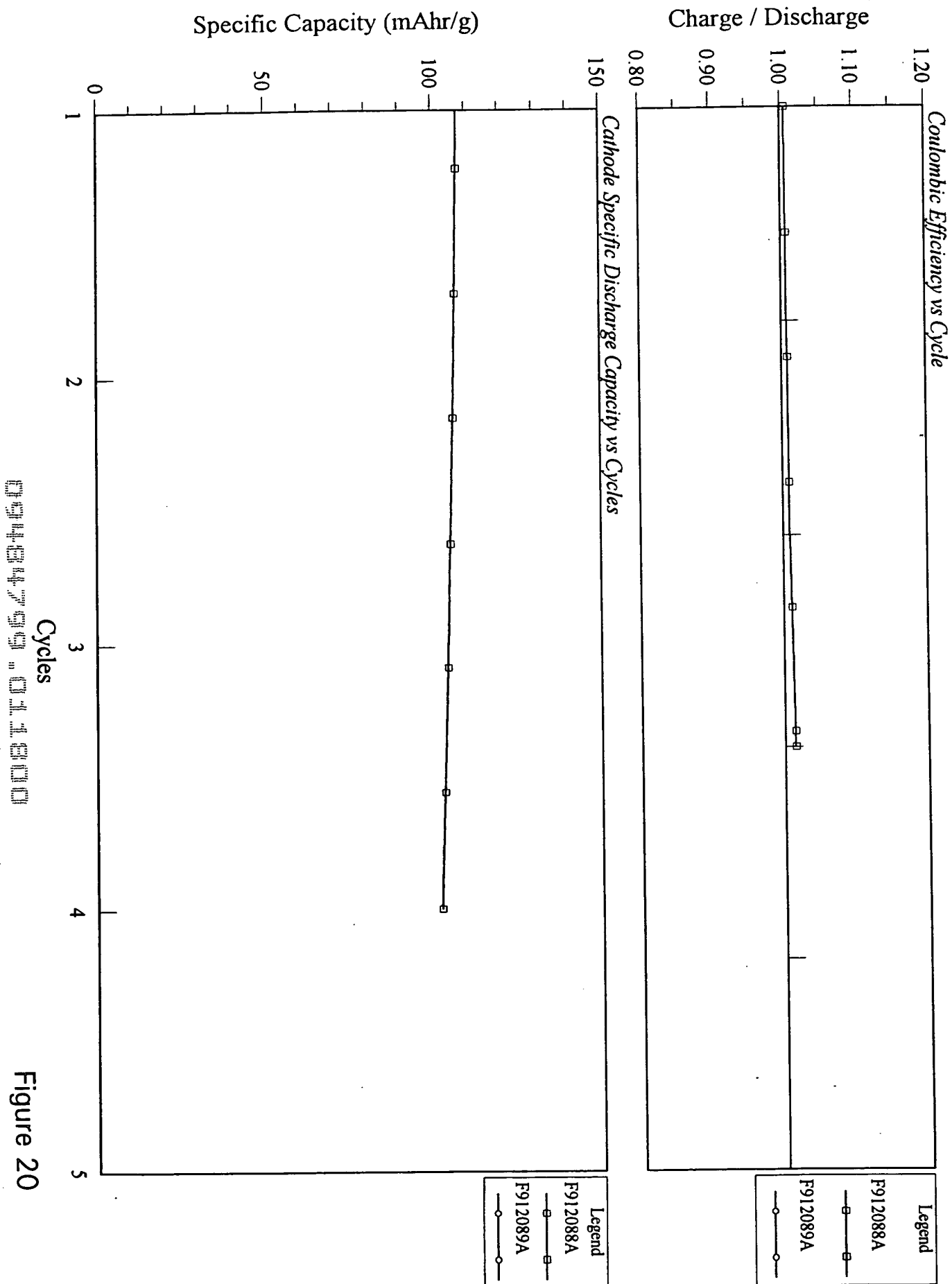


Figure 20

Carbothermal LiV<sub>2</sub>O<sub>5</sub>/MCMCB2528 2.5-3.65 V  
gamma-LiV<sub>2</sub>O<sub>5</sub>

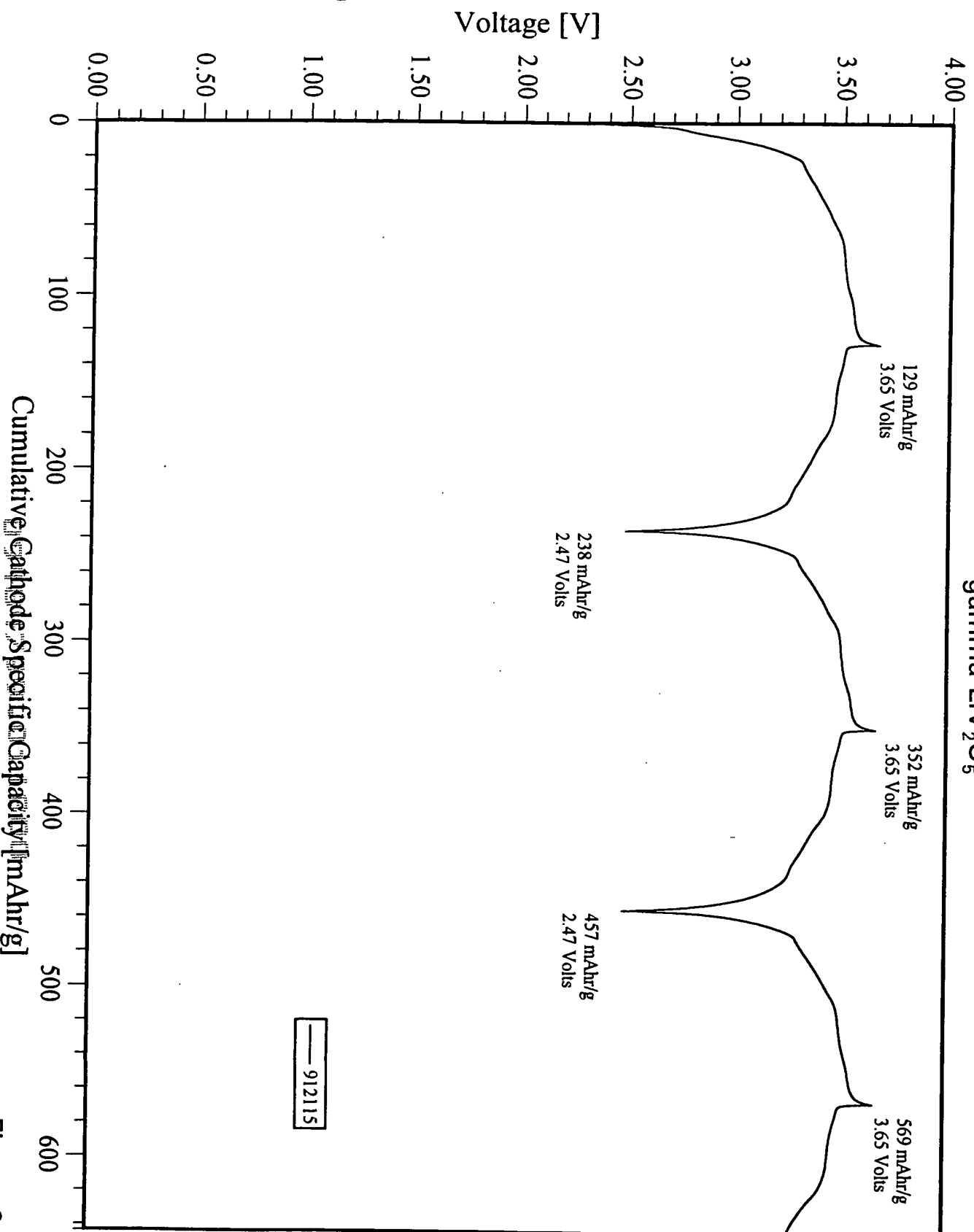


Figure 21

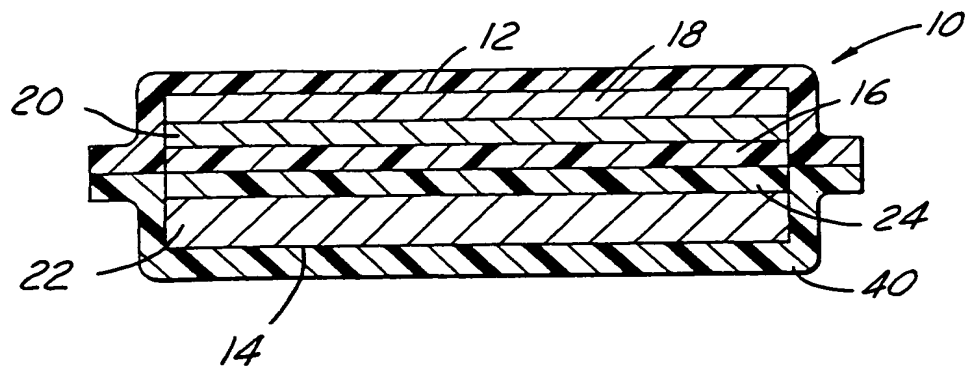


Figure 22

